



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 3-10-04

CHEMICAL IDENTITY

LABEL IDENTITY	GERMANIUM NITRIDE
CHEMICAL NAME/SYNONYMS	GERMANIUM NITRIDE
FORMULA	Ge₃N₄
CHEMICAL FAMILY	METAL
CAS REGISTRY NUMBER	12065-36-0, LISTED IN THE TSCA INVENTORY
HAZARDOUS INGREDIENTS	GERMANIUM NITRIDE

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM ODOR	NA
MOLECULAR WEIGHT	273.8 AMU
PH	NA
BOILING POINT	NA
DENSITY (gm/cc)	NA
VAPOR PRESSURE @ 20°	NA
% VOLATILE BY VOLUME (%)	NA
REACTION WITH WATER	NA
EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	NA
MP/MP RANGE	850° C
FREEZING POINT	NA

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NA
AUTOIGNITION TEMPERATURE (°C)	NA
FLAMMABILITY	NA
EXTINGUISHING MEDIA	Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam
SPECIAL FIRE FIGHTING PROCEDURES	Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
	Specific Hazard (s): Emits toxic fumes under fire conditions.
UNUSUAL FIRE & EXPLOSION HAZARDS	Material: Irritant



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HEALTH HAZARD INFORMATION

ROUTES OF EXPOSURE

INHALATION: Material is irritating to mucous membranes and upper respiratory tract.

MULTIPLE ROUTES: May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation.

EFFECTS OF OVEREXPOSURE:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

EMERGENCY FIRST AID PROCEDURES:

ORAL EXPOSURE: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE: In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

REACTIVITY DATA

STABILITY

CONDITIONS OF INSTABILITY

CONDITIONS TO AVOID

MATERIALS TO AVOID

Protect from moisture.

Protect from moisture.

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Germanium oxides, Nitrogen oxides.



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SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

WASTE DISPOSAL METHOD:

Consult federal, state and local regulations for proper disposal.

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION
LOCAL EXHAUST
MECHANICAL (general)
PROTECTIVE GLOVES
EYE PROTECTION

**Government approved respirator
Required
Recommended
Compatible chemical-resistant gloves
Chemical safety glasses**

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

Store in tightly closed containers in a cool, dry place. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

TRANSPORTATION REQUIREMENTS

DOT CLASS: **Not Classified**
UN NUMBER: **NC**
IMCO CLASS: **NC**
OTHER:

PRECAUTIONARY LABELING

Non-hazardous for air transport

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

NA= NOT APPLICABLE

ND= NO DATA FOUND